Test Report

September 21, 2020 09:00:26PM

# 1. Test Results Summary

## 1.1 Summary Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored | Total Duration |
| 224 | 204 | 4 | 16 | 0 | 52.957489252090454 |

## 1.2 Summary Totals for Devices Under Tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DUT | Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored |
| kg-topology-CloudEosRR1 | 56 | 51 | 1 | 4 | 0 |
| kg-topology-CloudEosRR2 | 56 | 51 | 1 | 4 | 0 |
| kg-topology-CloudEOSEdge1 | 56 | 51 | 1 | 4 | 0 |
| kg-topology-CloudEOSEdge2 | 56 | 51 | 1 | 4 | 0 |

## 1.3 Summary Totals for Test Suites

|  |  |  |  |
| --- | --- | --- | --- |
| Test Suite | Total Tests | Total Passed | Total Failed |
| Host | 4 | 4 | 0 |
| Interface | 52 | 48 | 4 |
| Lldp | 8 | 8 | 0 |
| Memory | 4 | 4 | 0 |

# 2. Test Case Results Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Id | Test Suite | Test Case | DUT | Result | Failure Reason |
| 1 | Host | Test if hostname is correcet | kg-topology-CloudEosRR1 | PASS |  |
| 2 | Host | Test if hostname is correcet | kg-topology-CloudEosRR2 | PASS |  |
| 3 | Host | Test if hostname is correcet | kg-topology-CloudEOSEdge1 | PASS |  |
| 4 | Host | Test if hostname is correcet | kg-topology-CloudEOSEdge2 | PASS |  |
| 5 | Interface | Test if interface link status is connected | kg-topology-CloudEosRR1 | PASS |  |
| 6 | Interface | Test if interface link status is connected | kg-topology-CloudEosRR2 | PASS |  |
| 7 | Interface | Test if interface link status is connected | kg-topology-CloudEOSEdge1 | PASS |  |
| 8 | Interface | Test if interface link status is connected | kg-topology-CloudEOSEdge2 | PASS |  |
| 9 | Interface | Test if interface counters has input errors | kg-topology-CloudEosRR1 | PASS |  |
| 10 | Interface | Test if interface counters has input errors | kg-topology-CloudEosRR2 | PASS |  |
| 11 | Interface | Test if interface counters has input errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 12 | Interface | Test if interface counters has input errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 13 | Interface | Test if interface counters has frame too short errors | kg-topology-CloudEosRR1 | PASS |  |
| 14 | Interface | Test if interface counters has frame too short errors | kg-topology-CloudEosRR2 | PASS |  |
| 15 | Interface | Test if interface counters has frame too short errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 16 | Interface | Test if interface counters has frame too short errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 17 | Interface | Test if interface phy status connected | kg-topology-CloudEosRR1 | PASS |  |
| 18 | Interface | Test if interface phy status connected | kg-topology-CloudEosRR2 | PASS |  |
| 19 | Interface | Test if interface phy status connected | kg-topology-CloudEOSEdge1 | PASS |  |
| 20 | Interface | Test if interface phy status connected | kg-topology-CloudEOSEdge2 | PASS |  |
| 21 | Interface | Test if interface counters has fcs errors | kg-topology-CloudEosRR1 | PASS |  |
| 22 | Interface | Test if interface counters has fcs errors | kg-topology-CloudEosRR2 | PASS |  |
| 23 | Interface | Test if interface counters has fcs errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 24 | Interface | Test if interface counters has fcs errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 25 | Interface | Test if interface counters has symbol errors | kg-topology-CloudEosRR1 | PASS |  |
| 26 | Interface | Test if interface counters has symbol errors | kg-topology-CloudEosRR2 | PASS |  |
| 27 | Interface | Test if interface counters has symbol errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 28 | Interface | Test if interface counters has symbol errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 29 | Interface | Test if interface counters has frame too long errors | kg-topology-CloudEosRR1 | PASS |  |
| 30 | Interface | Test if interface counters has frame too long errors | kg-topology-CloudEosRR2 | PASS |  |
| 31 | Interface | Test if interface counters has frame too long errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 32 | Interface | Test if interface counters has frame too long errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 33 | Interface | Test if interface in counters are discarding | kg-topology-CloudEosRR1 | PASS |  |
| 34 | Interface | Test if interface in counters are discarding | kg-topology-CloudEosRR2 | PASS |  |
| 35 | Interface | Test if interface in counters are discarding | kg-topology-CloudEOSEdge1 | PASS |  |
| 36 | Interface | Test if interface in counters are discarding | kg-topology-CloudEOSEdge2 | PASS |  |
| 37 | Interface | Test if interface out counters are discarding | kg-topology-CloudEosRR1 | PASS |  |
| 38 | Interface | Test if interface out counters are discarding | kg-topology-CloudEosRR2 | PASS |  |
| 39 | Interface | Test if interface out counters are discarding | kg-topology-CloudEOSEdge1 | PASS |  |
| 40 | Interface | Test if interface out counters are discarding | kg-topology-CloudEOSEdge2 | PASS |  |
| 41 | Interface | Test if interface protocol status is connected | kg-topology-CloudEosRR1 | PASS |  |
| 42 | Interface | Test if interface protocol status is connected | kg-topology-CloudEosRR2 | PASS |  |
| 43 | Interface | Test if interface protocol status is connected | kg-topology-CloudEOSEdge1 | PASS |  |
| 44 | Interface | Test if interface protocol status is connected | kg-topology-CloudEOSEdge2 | PASS |  |
| 45 | Interface | Test if interface counters has output errors | kg-topology-CloudEosRR1 | PASS |  |
| 46 | Interface | Test if interface counters has output errors | kg-topology-CloudEosRR2 | PASS |  |
| 47 | Interface | Test if interface counters has output errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 48 | Interface | Test if interface counters has output errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 49 | Interface | Test if interface counters has alignment errors | kg-topology-CloudEosRR1 | PASS |  |
| 50 | Interface | Test if interface counters has alignment errors | kg-topology-CloudEosRR2 | PASS |  |
| 51 | Interface | Test if interface counters has alignment errors | kg-topology-CloudEOSEdge1 | PASS |  |
| 52 | Interface | Test if interface counters has alignment errors | kg-topology-CloudEOSEdge2 | PASS |  |
| 53 | Interface | Test if interface mtu is correct | kg-topology-CloudEosRR1 | FAIL | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| 54 | Interface | Test if interface mtu is correct | kg-topology-CloudEosRR2 | FAIL | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| 55 | Interface | Test if interface mtu is correct | kg-topology-CloudEOSEdge1 | FAIL | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| 56 | Interface | Test if interface mtu is correct | kg-topology-CloudEOSEdge2 | FAIL | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| 57 | Lldp | Test if lldp rx is enabled | kg-topology-CloudEosRR1 | PASS |  |
| 58 | Lldp | Test if lldp rx is enabled | kg-topology-CloudEosRR2 | PASS |  |
| 59 | Lldp | Test if lldp rx is enabled | kg-topology-CloudEOSEdge1 | PASS |  |
| 60 | Lldp | Test if lldp rx is enabled | kg-topology-CloudEOSEdge2 | PASS |  |
| 61 | Lldp | Test if lldp tx is enabled | kg-topology-CloudEosRR1 | PASS |  |
| 62 | Lldp | Test if lldp tx is enabled | kg-topology-CloudEosRR2 | PASS |  |
| 63 | Lldp | Test if lldp tx is enabled | kg-topology-CloudEOSEdge1 | PASS |  |
| 64 | Lldp | Test if lldp tx is enabled | kg-topology-CloudEOSEdge2 | PASS |  |
| 65 | Memory | Test memory utilization | kg-topology-CloudEosRR1 | PASS |  |
| 66 | Memory | Test memory utilization | kg-topology-CloudEosRR2 | PASS |  |
| 67 | Memory | Test memory utilization | kg-topology-CloudEOSEdge1 | PASS |  |
| 68 | Memory | Test memory utilization | kg-topology-CloudEOSEdge2 | PASS |  |

# 3. Detailed Test Suite Results: Host

## 3.1 Test Case: Test if hostname is correcet

### 3.1.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_hostname\_is\_correcet\_on\_ |
| Description | Verify hostname is set on device is correct |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show hostname |
| Expected output | None |
| Actual output | kg-topology-CloudEosRR1 |
| Test result | True |
| Fail reason |  |
| Comment | TEST is hostname correct. GIVEN hostname |kg-topology-CloudEosRR1|. WHEN hostname is |kg-topology-CloudEosRR1|. THEN test case result is |True|. OUTPUT of |show hostname| is :  Hostname: kg-topology-CloudEosRR1 FQDN: kg-topology-CloudEosRR1 |

### 3.1.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_hostname\_is\_correcet\_on\_ |
| Description | Verify hostname is set on device is correct |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show hostname |
| Expected output | None |
| Actual output | kg-topology-CloudEosRR2 |
| Test result | True |
| Fail reason |  |
| Comment | TEST is hostname correct. GIVEN hostname |kg-topology-CloudEosRR2|. WHEN hostname is |kg-topology-CloudEosRR2|. THEN test case result is |True|. OUTPUT of |show hostname| is :  Hostname: kg-topology-CloudEosRR2 FQDN: kg-topology-CloudEosRR2 |

### 3.1.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_hostname\_is\_correcet\_on\_ |
| Description | Verify hostname is set on device is correct |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show hostname |
| Expected output | None |
| Actual output | kg-topology-CloudEOSEdge1 |
| Test result | True |
| Fail reason |  |
| Comment | TEST is hostname correct. GIVEN hostname |kg-topology-CloudEOSEdge1|. WHEN hostname is |kg-topology-CloudEOSEdge1|. THEN test case result is |True|. OUTPUT of |show hostname| is :  Hostname: kg-topology-CloudEOSEdge1 FQDN: kg-topology-CloudEOSEdge1 |

### 3.1.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_hostname\_is\_correcet\_on\_ |
| Description | Verify hostname is set on device is correct |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show hostname |
| Expected output | None |
| Actual output | kg-topology-CloudEOSEdge2 |
| Test result | True |
| Fail reason |  |
| Comment | TEST is hostname correct. GIVEN hostname |kg-topology-CloudEOSEdge2|. WHEN hostname is |kg-topology-CloudEOSEdge2|. THEN test case result is |True|. OUTPUT of |show hostname| is :  Hostname: kg-topology-CloudEOSEdge2 FQDN: kg-topology-CloudEOSEdge2 |

# 4. Detailed Test Suite Results: Interface

## 4.1 Test Case: Test if interface link status is connected

### 4.1.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_link\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces status |
| Expected output | connected |
| Actual output | connected |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link status on |kg-topology-CloudEosRR1|. GIVEN interface status is |connected|. WHEN interface status is |connected|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et100 connected routed full 10G 10/100/1000 |

### 4.1.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_link\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces status |
| Expected output | connected |
| Actual output | connected |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link status on |kg-topology-CloudEosRR2|. GIVEN interface status is |connected|. WHEN interface status is |connected|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et100 connected routed full 10G 10/100/1000 |

### 4.1.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_link\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces status |
| Expected output | connected |
| Actual output | connected |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link status on |kg-topology-CloudEOSEdge1|. GIVEN interface status is |connected|. WHEN interface status is |connected|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et2 connected routed full unconf 10/100/1000  Et2.102 connected routed full unconf dot1q-encapsulation 102  Et100 connected routed full 10G 10/100/1000 |

### 4.1.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_link\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces status |
| Expected output | connected |
| Actual output | connected |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link status on |kg-topology-CloudEOSEdge2|. GIVEN interface status is |connected|. WHEN interface status is |connected|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et2 connected routed full unconf 10/100/1000  Et2.102 connected routed full unconf dot1q-encapsulation 102  Et100 connected routed full 10G 10/100/1000 |

## 4.2 Test Case: Test if interface counters has input errors

### 4.2.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_input\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have input errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have input errors on |kg-topology-CloudEosRR1|. GIVEN interface input errors is |0|. WHEN interface inputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.2.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_input\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have input errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have input errors on |kg-topology-CloudEosRR2|. GIVEN interface input errors is |0|. WHEN interface inputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.2.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_input\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have input errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have input errors on |kg-topology-CloudEOSEdge1|. GIVEN interface input errors is |0|. WHEN interface inputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.2.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_input\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have input errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have input errors on |kg-topology-CloudEOSEdge2|. GIVEN interface input errors is |0|. WHEN interface inputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.3 Test Case: Test if interface counters has frame too short errors

### 4.3.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_short\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooShorts errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooShorts errors on |kg-topology-CloudEosRR1|. GIVEN interface frameTooShorts errors is |0|. WHEN interface frameTooShortserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.3.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_short\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooShorts errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooShorts errors on |kg-topology-CloudEosRR2|. GIVEN interface frameTooShorts errors is |0|. WHEN interface frameTooShortserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.3.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_short\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooShorts errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooShorts errors on |kg-topology-CloudEOSEdge1|. GIVEN interface frameTooShorts errors is |0|. WHEN interface frameTooShortserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.3.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_short\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooShorts errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooShorts errors on |kg-topology-CloudEOSEdge2|. GIVEN interface frameTooShorts errors is |0|. WHEN interface frameTooShortserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.4 Test Case: Test if interface phy status connected

### 4.4.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_phy\_status\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces phy detail |
| Expected output | linkUp |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | kg-topology-CloudEosRR1 is vEOS instance. Test is not valid. |

### 4.4.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_phy\_status\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces phy detail |
| Expected output | linkUp |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | kg-topology-CloudEosRR2 is vEOS instance. Test is not valid. |

### 4.4.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_phy\_status\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces phy detail |
| Expected output | linkUp |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | kg-topology-CloudEOSEdge1 is vEOS instance. Test is not valid. |

### 4.4.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_phy\_status\_connected\_on\_ |
| Description | Verify the interfaces of interest link statuses are connected |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces phy detail |
| Expected output | linkUp |
| Actual output | None |
| Test result | True |
| Fail reason |  |
| Comment | kg-topology-CloudEOSEdge2 is vEOS instance. Test is not valid. |

## 4.5 Test Case: Test if interface counters has fcs errors

### 4.5.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_fcs\_errors\_on\_ |
| Description | Verify the interfaces of interest have no fcsErrors errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have fcsErrors errors on |kg-topology-CloudEosRR1|. GIVEN interface fcsErrors errors is |0|. WHEN interface fcsErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.5.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_fcs\_errors\_on\_ |
| Description | Verify the interfaces of interest have no fcsErrors errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have fcsErrors errors on |kg-topology-CloudEosRR2|. GIVEN interface fcsErrors errors is |0|. WHEN interface fcsErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.5.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_fcs\_errors\_on\_ |
| Description | Verify the interfaces of interest have no fcsErrors errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have fcsErrors errors on |kg-topology-CloudEOSEdge1|. GIVEN interface fcsErrors errors is |0|. WHEN interface fcsErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.5.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_fcs\_errors\_on\_ |
| Description | Verify the interfaces of interest have no fcsErrors errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have fcsErrors errors on |kg-topology-CloudEOSEdge2|. GIVEN interface fcsErrors errors is |0|. WHEN interface fcsErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.6 Test Case: Test if interface counters has symbol errors

### 4.6.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_symbol\_errors\_on\_ |
| Description | Verify the interfaces of interest have no symbolErrors errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have symbolErrors errors on |kg-topology-CloudEosRR1|. GIVEN interface symbolErrors errors is |0|. WHEN interface symbolErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.6.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_symbol\_errors\_on\_ |
| Description | Verify the interfaces of interest have no symbolErrors errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have symbolErrors errors on |kg-topology-CloudEosRR2|. GIVEN interface symbolErrors errors is |0|. WHEN interface symbolErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.6.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_symbol\_errors\_on\_ |
| Description | Verify the interfaces of interest have no symbolErrors errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have symbolErrors errors on |kg-topology-CloudEOSEdge1|. GIVEN interface symbolErrors errors is |0|. WHEN interface symbolErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.6.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_symbol\_errors\_on\_ |
| Description | Verify the interfaces of interest have no symbolErrors errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have symbolErrors errors on |kg-topology-CloudEOSEdge2|. GIVEN interface symbolErrors errors is |0|. WHEN interface symbolErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.7 Test Case: Test if interface counters has frame too long errors

### 4.7.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_long\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooLong errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooLongs errors on |kg-topology-CloudEosRR1|. GIVEN interface frameTooLongs errors is |0|. WHEN interface frameTooLongserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.7.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_long\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooLong errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooLongs errors on |kg-topology-CloudEosRR2|. GIVEN interface frameTooLongs errors is |0|. WHEN interface frameTooLongserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.7.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_long\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooLong errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooLongs errors on |kg-topology-CloudEOSEdge1|. GIVEN interface frameTooLongs errors is |0|. WHEN interface frameTooLongserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.7.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_frame\_too\_long\_errors\_on\_ |
| Description | Verify the interfaces of interest have no frameTooLong errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have frameTooLongs errors on |kg-topology-CloudEOSEdge2|. GIVEN interface frameTooLongs errors is |0|. WHEN interface frameTooLongserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.8 Test Case: Test if interface in counters are discarding

### 4.8.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_in\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no inDiscards |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has inbound discards on |kg-topology-CloudEosRR1|. GIVEN interface inbound discards are |0|. WHEN interface inbound discards are |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

### 4.8.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_in\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no inDiscards |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has inbound discards on |kg-topology-CloudEosRR2|. GIVEN interface inbound discards are |0|. WHEN interface inbound discards are |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

### 4.8.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_in\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no inDiscards |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has inbound discards on |kg-topology-CloudEOSEdge1|. GIVEN interface inbound discards are |0|. WHEN interface inbound discards are |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et2 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

### 4.8.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_in\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no inDiscards |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has inbound discards on |kg-topology-CloudEOSEdge2|. GIVEN interface inbound discards are |0|. WHEN interface inbound discards are |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et2 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

## 4.9 Test Case: Test if interface out counters are discarding

### 4.9.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_out\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no outDiscards |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has outbound discards on |kg-topology-CloudEosRR1|  GIVEN interface outbound discards are |0| WHEN interface outbound discards are |0| THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

### 4.9.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_out\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no outDiscards |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has outbound discards on |kg-topology-CloudEosRR2|  GIVEN interface outbound discards are |0| WHEN interface outbound discards are |0| THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

### 4.9.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_out\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no outDiscards |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has outbound discards on |kg-topology-CloudEOSEdge1|  GIVEN interface outbound discards are |0| WHEN interface outbound discards are |0| THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et2 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

### 4.9.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_out\_counters\_are\_discarding\_on\_ |
| Description | Verify the interfaces of interest have no outDiscards |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters discards |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters has outbound discards on |kg-topology-CloudEOSEdge2|  GIVEN interface outbound discards are |0| WHEN interface outbound discards are |0| THEN test case result is |True|. OUTPUT of |show interfaces counters discards| is:  Port InDiscards OutDiscards  --------------- ---------------- -----------  Et1 0 0  Et2 0 0  Et100 0 0  --------- --------- ---------  Totals 0 0 |

## 4.10 Test Case: Test if interface protocol status is connected

### 4.10.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_protocol\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest protocol statuses are connected |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces status |
| Expected output | up |
| Actual output | up |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link prootocol statuses on |kg-topology-CloudEosRR1|. GIVEN interface status is |up|. WHEN interface status is |up|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et100 connected routed full 10G 10/100/1000 |

### 4.10.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_protocol\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest protocol statuses are connected |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces status |
| Expected output | up |
| Actual output | up |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link prootocol statuses on |kg-topology-CloudEosRR2|. GIVEN interface status is |up|. WHEN interface status is |up|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et100 connected routed full 10G 10/100/1000 |

### 4.10.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_protocol\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest protocol statuses are connected |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces status |
| Expected output | up |
| Actual output | up |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link prootocol statuses on |kg-topology-CloudEOSEdge1|. GIVEN interface status is |up|. WHEN interface status is |up|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et2 connected routed full unconf 10/100/1000  Et2.102 connected routed full unconf dot1q-encapsulation 102  Et100 connected routed full 10G 10/100/1000 |

### 4.10.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_protocol\_status\_is\_connected\_on\_ |
| Description | Verify the interfaces of interest protocol statuses are connected |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces status |
| Expected output | up |
| Actual output | up |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| link prootocol statuses on |kg-topology-CloudEOSEdge2|. GIVEN interface status is |up|. WHEN interface status is |up|. THEN test case result is |True|. OUTPUT of |show interfaces status| is:  Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected routed full unconf 10/100/1000  Et2 connected routed full unconf 10/100/1000  Et2.102 connected routed full unconf dot1q-encapsulation 102  Et100 connected routed full 10G 10/100/1000 |

## 4.11 Test Case: Test if interface counters has output errors

### 4.11.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_output\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have outut errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| has output errors on |kg-topology-CloudEosRR1|. GIVEN interface output errors is |0|. WHEN interface outputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.11.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_output\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have outut errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| has output errors on |kg-topology-CloudEosRR2|. GIVEN interface output errors is |0|. WHEN interface outputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.11.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_output\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have outut errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| has output errors on |kg-topology-CloudEOSEdge1|. GIVEN interface output errors is |0|. WHEN interface outputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.11.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_output\_errors\_on\_ |
| Description | Verify the interfaces of interest does not have outut errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| has output errors on |kg-topology-CloudEOSEdge2|. GIVEN interface output errors is |0|. WHEN interface outputerrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.12 Test Case: Test if interface counters has alignment errors

### 4.12.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_alignment\_errors\_on\_ |
| Description | Verify the interfaces of interest have no alignmentErrors errors |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have alignmentErrors errors on |kg-topology-CloudEosRR1|. GIVEN interface alignmentErrors errors is |0|. WHEN interface alignmentErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.12.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_alignment\_errors\_on\_ |
| Description | Verify the interfaces of interest have no alignmentErrors errors |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have alignmentErrors errors on |kg-topology-CloudEosRR2|. GIVEN interface alignmentErrors errors is |0|. WHEN interface alignmentErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.12.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_alignment\_errors\_on\_ |
| Description | Verify the interfaces of interest have no alignmentErrors errors |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have alignmentErrors errors on |kg-topology-CloudEOSEdge1|. GIVEN interface alignmentErrors errors is |0|. WHEN interface alignmentErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

### 4.12.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_counters\_has\_alignment\_errors\_on\_ |
| Description | Verify the interfaces of interest have no alignmentErrors errors |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces counters errors |
| Expected output | 0 |
| Actual output | 0 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| counters have alignmentErrors errors on |kg-topology-CloudEOSEdge2|. GIVEN interface alignmentErrors errors is |0|. WHEN interface alignmentErrorserrors is |0|. THEN test case result is |True|. OUTPUT of |show interfaces counters errors| is:  Port FCS Align Symbol Rx Runts Giants Tx Et1 0 0 0 0 0 0 0 Et2 0 0 0 0 0 0 0 Et100 0 0 0 0 0 0 0 |

## 4.13 Test Case: Test if interface mtu is correct

### 4.13.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_mtu\_is\_correct\_on\_ |
| Description | Verify the interfaces of interest MTU |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show interfaces |
| Expected output | 10178 |
| Actual output | 1500 |
| Test result | False |
| Fail reason | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| Comment | TEST if interface |Ethernet1| MTU is correct on |kg-topology-CloudEosRR1|. GIVEN MTU of |10178|. WHEN interface MTU is |1500|. THEN test case result is |False|. OUTPUT of |show interfaces| is:  Ethernet1 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0246.bbe9.20d4 (bia 0246.bbe9.20d4)  Internet address is 11.201.12.101/24  Broadcast address is 255.255.255.255  Address determined by DHCP  IP MTU 1500 bytes (default)  Full-duplex, Unconfigured, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 19 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 48.8 kbps (- with framing overhead), 44 packets/sec  5 minutes output rate 94.0 kbps (- with framing overhead), 47 packets/sec  77259719 packets input, 9655327290 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  86176971 packets output, 16471228302 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Ethernet100 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0246.bb59.d5ae (bia 0246.bb59.d5ae)  Internet address is 11.201.8.1/22  Broadcast address is 255.255.255.255  IP MTU 1400 bytes , BW 10000000 kbit  Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 17 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 0 bps (0.0% with framing overhead), 0 packets/sec  5 minutes output rate 0 bps (0.0% with framing overhead), 0 packets/sec  0 packets input, 0 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  0 packets output, 0 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Loopback0 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 11.201.0.2/32  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 37 minutes, 38 seconds Loopback10 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 198.18.0.36/24  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 40 minutes, 42 seconds |

### 4.13.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_mtu\_is\_correct\_on\_ |
| Description | Verify the interfaces of interest MTU |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show interfaces |
| Expected output | 10178 |
| Actual output | 1500 |
| Test result | False |
| Fail reason | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| Comment | TEST if interface |Ethernet1| MTU is correct on |kg-topology-CloudEosRR2|. GIVEN MTU of |10178|. WHEN interface MTU is |1500|. THEN test case result is |False|. OUTPUT of |show interfaces| is:  Ethernet1 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0654.9ba1.1756 (bia 0654.9ba1.1756)  Internet address is 11.201.13.101/24  Broadcast address is 255.255.255.255  Address determined by DHCP  IP MTU 1500 bytes (default)  Full-duplex, Unconfigured, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 25 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 46.8 kbps (- with framing overhead), 41 packets/sec  5 minutes output rate 90.4 kbps (- with framing overhead), 43 packets/sec  78378489 packets input, 9784753822 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  87876947 packets output, 16614496941 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Ethernet100 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0654.9b7c.b00f (bia 0654.9b7c.b00f)  Internet address is 11.201.8.1/22  Broadcast address is 255.255.255.255  IP MTU 1400 bytes , BW 10000000 kbit  Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 23 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 0 bps (0.0% with framing overhead), 0 packets/sec  5 minutes output rate 0 bps (0.0% with framing overhead), 0 packets/sec  0 packets input, 0 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  0 packets output, 0 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Loopback0 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 11.201.0.4/32  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 37 minutes, 52 seconds Loopback10 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 198.18.0.38/24  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 40 minutes, 46 seconds |

### 4.13.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_mtu\_is\_correct\_on\_ |
| Description | Verify the interfaces of interest MTU |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show interfaces |
| Expected output | 10178 |
| Actual output | 1500 |
| Test result | False |
| Fail reason | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| Comment | TEST if interface |Ethernet1| MTU is correct on |kg-topology-CloudEOSEdge1|. GIVEN MTU of |10178|. WHEN interface MTU is |1500|. THEN test case result is |False|. OUTPUT of |show interfaces| is:  Ethernet1 is up, line protocol is up (connected)  Hardware is Ethernet, address is 029e.d288.21f6 (bia 029e.d288.21f6)  Internet address is 11.201.14.101/25  Broadcast address is 255.255.255.255  Address determined by DHCP  IP MTU 1500 bytes (default)  Full-duplex, Unconfigured, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 37 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 55.1 kbps (- with framing overhead), 51 packets/sec  5 minutes output rate 119 kbps (- with framing overhead), 56 packets/sec  151211386 packets input, 17776325222 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  179673215 packets output, 38396533157 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Ethernet2 is up, line protocol is up (connected)  Hardware is Ethernet, address is 023d.7650.e316 (bia 023d.7650.e316)  Internet address is 11.201.14.201/25  Broadcast address is 255.255.255.255  IP MTU 9000 bytes  Full-duplex, Unconfigured, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 37 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 41.5 kbps (- with framing overhead), 35 packets/sec  5 minutes output rate 28.1 kbps (- with framing overhead), 33 packets/sec  170343351 packets input, 30660889789 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  151031136 packets output, 17735462816 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Ethernet2.102 is up, line protocol is up (connected)  Hardware is Subinterface, address is 023d.7650.e316  Internet address is 11.201.14.201/25  Broadcast address is 255.255.255.255  IP MTU 9000 bytes (default)  Up 39 days, 19 hours, 34 minutes, 17 seconds Ethernet100 is up, line protocol is up (connected)  Hardware is Ethernet, address is 029e.d20a.bbfc (bia 029e.d20a.bbfc)  Internet address is 11.201.8.1/22  Broadcast address is 255.255.255.255  IP MTU 1400 bytes , BW 10000000 kbit  Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 35 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 0 bps (0.0% with framing overhead), 0 packets/sec  5 minutes output rate 0 bps (0.0% with framing overhead), 0 packets/sec  0 packets input, 0 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  0 packets output, 0 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Loopback0 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 11.201.0.1/32  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 38 minutes, 1 second Loopback10 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 198.18.0.35/24  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 40 minutes, 52 seconds Vlan4093 is down, line protocol is lowerlayerdown (notconnect)  Hardware is Vlan, address is 0000.0000.0000 (bia 0000.0000.0000)  IP MTU 9164 bytes (default)  Down 39 days, 19 hours, 34 minutes, 17 seconds Vlan4094 is down, line protocol is lowerlayerdown (notconnect)  Hardware is Vlan, address is 0000.0000.0000 (bia 0000.0000.0000)  IP MTU 9164 bytes (default)  Down 39 days, 19 hours, 37 minutes, 59 seconds Vxlan1 is up, line protocol is up (connected)  Hardware is Vxlan  Source interface is Loopback0 and is active with 11.201.0.1  Replication/Flood Mode is headend with Flood List Source: CLI  Remote MAC learning is disabled  VNI mapping to VLANs  Static VLAN to VNI mapping is   Dynamic VLAN to VNI mapping for 'evpn' is  [4093, 102] [4094, 101]   Note: All Dynamic VLANs used by VCS are internal VLANs.  Use 'show vxlan vni' for details.  Static VRF to VNI mapping is   [default, 101]  [prod, 102]  MLAG Shared Router MAC is 0000.0000.0000 |

### 4.13.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_intf\_mtu\_is\_correct\_on\_ |
| Description | Verify the interfaces of interest MTU |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show interfaces |
| Expected output | 10178 |
| Actual output | 1500 |
| Test result | False |
| Fail reason | On interface |Ethernet1|: interface MTU is |1500|, correct MTU is |10178| |
| Comment | TEST if interface |Ethernet1| MTU is correct on |kg-topology-CloudEOSEdge2|. GIVEN MTU of |10178|. WHEN interface MTU is |1500|. THEN test case result is |False|. OUTPUT of |show interfaces| is:  Ethernet1 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0635.0247.e530 (bia 0635.0247.e530)  Internet address is 11.201.15.101/25  Broadcast address is 255.255.255.255  Address determined by DHCP  IP MTU 1500 bytes (default)  Full-duplex, Unconfigured, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 14 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 70.9 kbps (- with framing overhead), 69 packets/sec  5 minutes output rate 161 kbps (- with framing overhead), 79 packets/sec  133016979 packets input, 15745660042 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  156846101 packets output, 33327736546 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Ethernet2 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0667.8522.a780 (bia 0667.8522.a780)  Internet address is 11.201.15.201/25  Broadcast address is 255.255.255.255  IP MTU 9000 bytes  Full-duplex, Unconfigured, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 15 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 88.3 kbps (- with framing overhead), 58 packets/sec  5 minutes output rate 49.2 kbps (- with framing overhead), 51 packets/sec  145589398 packets input, 24205041233 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  131398020 packets output, 14871167273 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Ethernet2.102 is up, line protocol is up (connected)  Hardware is Subinterface, address is 0667.8522.a780  Internet address is 11.201.15.201/25  Broadcast address is 255.255.255.255  IP MTU 9000 bytes (default)  Up 39 days, 19 hours, 34 minutes, 12 seconds Ethernet100 is up, line protocol is up (connected)  Hardware is Ethernet, address is 0635.02ca.8297 (bia 0635.02ca.8297)  Internet address is 11.201.8.1/22  Broadcast address is 255.255.255.255  IP MTU 1400 bytes , BW 10000000 kbit  Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a  Up 39 days, 19 hours, 40 minutes, 12 seconds  Loopback Mode : None  3 link status changes since last clear  Last clearing of "show interface" counters never  5 minutes input rate 0 bps (0.0% with framing overhead), 0 packets/sec  5 minutes output rate 0 bps (0.0% with framing overhead), 0 packets/sec  0 packets input, 0 bytes  Received 0 broadcasts, 0 multicast  0 runts, 0 giants  0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards  0 PAUSE input  0 packets output, 0 bytes  Sent 0 broadcasts, 0 multicast  0 output errors, 0 collisions  0 late collision, 0 deferred, 0 output discards  0 PAUSE output Loopback0 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 11.201.0.3/32  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 37 minutes, 32 seconds Loopback10 is up, line protocol is up (connected)  Hardware is Loopback  Internet address is 198.18.0.37/24  Broadcast address is 255.255.255.255  IP MTU 65535 bytes (default)  Up 39 days, 19 hours, 40 minutes, 36 seconds Vlan4093 is down, line protocol is lowerlayerdown (notconnect)  Hardware is Vlan, address is 0000.0000.0000 (bia 0000.0000.0000)  IP MTU 9164 bytes (default)  Down 39 days, 19 hours, 34 minutes, 13 seconds Vlan4094 is down, line protocol is lowerlayerdown (notconnect)  Hardware is Vlan, address is 0000.0000.0000 (bia 0000.0000.0000)  IP MTU 9164 bytes (default)  Down 39 days, 19 hours, 37 minutes, 28 seconds Vxlan1 is up, line protocol is up (connected)  Hardware is Vxlan  Source interface is Loopback0 and is active with 11.201.0.3  Replication/Flood Mode is headend with Flood List Source: CLI  Remote MAC learning is disabled  VNI mapping to VLANs  Static VLAN to VNI mapping is   Dynamic VLAN to VNI mapping for 'evpn' is  [4093, 102] [4094, 101]   Note: All Dynamic VLANs used by VCS are internal VLANs.  Use 'show vxlan vni' for details.  Static VRF to VNI mapping is   [default, 101]  [prod, 102]  MLAG Shared Router MAC is 0000.0000.0000 |

# 5. Detailed Test Suite Results: Lldp

## 5.1 Test Case: Test if lldp rx is enabled

### 5.1.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_rx\_is\_enabled\_on\_ |
| Description | Verify LLDP receive is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP receive is enabled on |kg-topology-CloudEosRR1|. GIVEN LLDP receive state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et100 Yes Yes |

### 5.1.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_rx\_is\_enabled\_on\_ |
| Description | Verify LLDP receive is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP receive is enabled on |kg-topology-CloudEosRR2|. GIVEN LLDP receive state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et100 Yes Yes |

### 5.1.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_rx\_is\_enabled\_on\_ |
| Description | Verify LLDP receive is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP receive is enabled on |kg-topology-CloudEOSEdge1|. GIVEN LLDP receive state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et2 Yes Yes  Et100 Yes Yes |

### 5.1.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_rx\_is\_enabled\_on\_ |
| Description | Verify LLDP receive is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP receive is enabled on |kg-topology-CloudEOSEdge2|. GIVEN LLDP receive state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et2 Yes Yes  Et100 Yes Yes |

## 5.2 Test Case: Test if lldp tx is enabled

### 5.2.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_tx\_is\_enabled\_on\_ |
| Description | Verify LLDP transmit is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP transmit is enabled on |kg-topology-CloudEosRR1|. GIVEN LLDP transmit state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et100 Yes Yes |

### 5.2.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_tx\_is\_enabled\_on\_ |
| Description | Verify LLDP transmit is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP transmit is enabled on |kg-topology-CloudEosRR2|. GIVEN LLDP transmit state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et100 Yes Yes |

### 5.2.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_tx\_is\_enabled\_on\_ |
| Description | Verify LLDP transmit is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP transmit is enabled on |kg-topology-CloudEOSEdge1|. GIVEN LLDP transmit state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et2 Yes Yes  Et100 Yes Yes |

### 5.2.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_if\_lldp\_tx\_is\_enabled\_on\_ |
| Description | Verify LLDP transmit is enabled on interesting interfaces |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show lldp |
| Expected output | True |
| Actual output | True |
| Test result | True |
| Fail reason |  |
| Comment | TEST if interface |Ethernet1| LLDP transmit is enabled on |kg-topology-CloudEOSEdge2|. GIVEN LLDP transmit state is |True|. WHEN LLDP receive state is |True|. THEN test case result is |True|. OUTPUT of |show lldp| is:  LLDP transmit interval : 30 seconds LLDP transmit holdtime : 120 seconds LLDP reinitialization delay : 2 seconds LLDP Management Address VRF : default  Enabled optional TLVs:  Port Description  System Name  System Description  System Capabilities  Management Address (best)  IEEE802.1 Port VLAN ID  IEEE802.3 Link Aggregation  IEEE802.3 Maximum Frame Size  IEEE802.3 Power Via MDI  LLDP-MED Capabilities  LLDP-MED Network Policy  Port Tx Enabled Rx Enabled  ----------- ---------------- ----------  Et1 Yes Yes  Et2 Yes Yes  Et100 Yes Yes |

# 6. Detailed Test Suite Results: Memory

## 6.1 Test Case: Test memory utilization

### 6.1.1 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_memory\_utilization\_on\_ |
| Description | Verify memory is not exceeding high utlization |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show version |
| Expected output | 70 |
| Actual output | 37.88877046797791 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if memory utilization is less than specified value on |kg-topology-CloudEosRR1|. GIVEN memory utilization is less than |70|. WHEN memory utilization is |37.88877046797791|. THEN test case result is |True|. OUTPUT of |show version| is:  Arista vEOS Hardware version:  Serial number: 9B112703F293F47ADC3EE25318457B64 System MAC address: 0246.bb59.d5ae  Software image version: 4.23.1F-cloud-16179785.jakartarel (engineering build) Architecture: x86\_64 Internal build version: 4.23.1F-cloud-16179785.jakartarel Internal build ID: 6bc96200-86c1-4e86-bed7-8280a6802809  Uptime: 5 weeks, 4 days, 19 hours and 41 minutes Total memory: 7761392 kB Free memory: 2940696 kB |

### 6.1.2 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_memory\_utilization\_on\_ |
| Description | Verify memory is not exceeding high utlization |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show version |
| Expected output | 70 |
| Actual output | 37.96644368092234 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if memory utilization is less than specified value on |kg-topology-CloudEosRR2|. GIVEN memory utilization is less than |70|. WHEN memory utilization is |37.96644368092234|. THEN test case result is |True|. OUTPUT of |show version| is:  Arista vEOS Hardware version:  Serial number: 93F97AD3A1044C742872BA1CFA684D63 System MAC address: 0654.9b7c.b00f  Software image version: 4.23.1F-cloud-16179785.jakartarel (engineering build) Architecture: x86\_64 Internal build version: 4.23.1F-cloud-16179785.jakartarel Internal build ID: 6bc96200-86c1-4e86-bed7-8280a6802809  Uptime: 5 weeks, 4 days, 19 hours and 41 minutes Total memory: 7818736 kB Free memory: 2953212 kB |

### 6.1.3 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_memory\_utilization\_on\_ |
| Description | Verify memory is not exceeding high utlization |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show version |
| Expected output | 70 |
| Actual output | 35.38045024157358 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if memory utilization is less than specified value on |kg-topology-CloudEOSEdge1|. GIVEN memory utilization is less than |70|. WHEN memory utilization is |35.38045024157358|. THEN test case result is |True|. OUTPUT of |show version| is:  Arista vEOS Hardware version:  Serial number: DB3968957436BF7623C810C9F13FC97E System MAC address: 029e.d20a.bbfc  Software image version: 4.23.1F-cloud-16179785.jakartarel (engineering build) Architecture: x86\_64 Internal build version: 4.23.1F-cloud-16179785.jakartarel Internal build ID: 6bc96200-86c1-4e86-bed7-8280a6802809  Uptime: 5 weeks, 4 days, 19 hours and 42 minutes Total memory: 7818736 kB Free memory: 2751468 kB |

### 6.1.4 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Name | test\_memory\_utilization\_on\_ |
| Description | Verify memory is not exceeding high utlization |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show version |
| Expected output | 70 |
| Actual output | 36.19196144196814 |
| Test result | True |
| Fail reason |  |
| Comment | TEST if memory utilization is less than specified value on |kg-topology-CloudEOSEdge2|. GIVEN memory utilization is less than |70|. WHEN memory utilization is |36.19196144196814|. THEN test case result is |True|. OUTPUT of |show version| is:  Arista vEOS Hardware version:  Serial number: DE52F26D16E91F22BB1B507175C8C765 System MAC address: 0635.02ca.8297  Software image version: 4.23.1F-cloud-16179785.jakartarel (engineering build) Architecture: x86\_64 Internal build version: 4.23.1F-cloud-16179785.jakartarel Internal build ID: 6bc96200-86c1-4e86-bed7-8280a6802809  Uptime: 5 weeks, 4 days, 19 hours and 41 minutes Total memory: 7761392 kB Free memory: 2796104 kB |